

A SENSOR ASSEMBLY, A FLUID PUMP AND A COOLER

ABSTRACT OF THE DISCLOSURE

The present invention relates to a sensor assembly for measuring movements of a fluid pump, the fluid pump being driven by an electric motor and the electric motor being connectable to a feed voltage, the sensor assembly comprising an accelerometer and wherein the accelerometer is electrically associated to a bias circuit, and wherein the latter comprises a feed terminal and a signal terminal, the feed terminal being electrically connectable to the feed voltage of the motor, and the signal terminal being electrically connectable to an external measuring terminal. A fluid pump is also described, which comprises a cylinder, a piston, a housing comprising a hermetic terminal and hermetically enclosing the cylinder and the piston, thus forming a hermetic assembly, the piston being driven by an electric motor, the electric motor being connected to an electric voltage by means of a pair of voltage terminals associated to the hermetic terminal, the fluid pump comprising a sensor assembly associated to the cylinder, the sensor assembly comprising a feed terminal and a signal terminal, the feed terminal being connected to one of the voltage terminals and the signal terminal being electrically connected to an external measuring circuit.